

We claim:

1 1. A system for managing digital resources on a network, the network connects to at least one
2 network site having at least one network server to access a first digital resource and a second digital
3 resource, the first digital resource having a link to the second digital resource, the system
4 comprising:

5 a change-detection system connected to the network, wherein the change-detection system
6 examines the first digital resource and the second digital resource to detect an error in the link to the
7 second digital resource; and

8 a notification system that communicates a message describing the error to an author of the
9 first digital resource.

1 2. The system of claim 1 further comprising:

2 a registration system connected to the network, the registration system having an interface
3 for a subscriber to create an association in a database between the author and the first digital
4 resource.

1 3. The system of claim 2, wherein the notification system further comprises:

2 a first notification subsystem that submits a query to the database to retrieve the author of
3 the first digital resource; and

4 a second notification subsystem that determines the author of the first digital resource if the
5 query by the first notification subsystem fails to retrieve the author of the first digital resource.

1 4. The system of claim 3, wherein the second notification subsystem determines the author of
2 the first digital resource by applying heuristic algorithms and performing a probabilistic analysis.

1 5. The system of claim 1 further comprising:
2 an administrative system having an interface for an operator to maintain the system.

1 6. The system of claim 1, wherein the change-detection system further comprises:
2 a collection system connected to the network, wherein the collection system retrieves data
3 from said at least one network site and stores the data in a database; and
4 a detection system that examines the first digital resource and the second digital resource to
5 detect an error in the link to the second digital resource.
6 Web-crawler that retrieves data from said at least one network site.

1 7. The system of claim 6, wherein the collection system includes a Web-crawler that retrieves
2 data from said at least one network site.

1 8. The system of claim 1, wherein the notification system includes a resolution system that
2 generates the message describing the error in the link to the second digital resource.

1 9. The system of claim 1, wherein the message includes at least one resolution for the error.

1 10. The system of claim 9, wherein the message further includes a recommended resolution for
2 the error.

1 11. The system of claim 10, wherein the message further includes a modified first digital
2 resource comprising a copy of the first digital resource altered by application of the recommended
3 resolution for the error.

1 12. The system of claim 11, wherein the notification system further communicates a request to
2 said at least one network server to replace the first digital resource with the modified digital
3 resource.

1 13. The system of claim 12, wherein the message includes an indication that the notification
2 system replaced the first digital resource with the modified first digital resource.

1 14. A method for managing digital resources on a network, the network connects to at least one
2 network site having at least one network server to access a first digital resource and a second digital
3 resource, the first digital resource having a link to the second digital resource, the method
4 comprising the steps of:

5 creating an association in a database between an author and the first digital resource;

6 retrieving data from said at least one network site;

7 storing the data in the database;

8 examining the first digital resource and the second digital resource to detect an error in the
9 link to the second digital resource;

10 generating a message describing the error; and

11 communicating the message to the author of the first digital resource.

1 15. The method of claim 14, the message including at least one resolution for the disparate

2 content.

1 16. The method of claim 15, the message further including a recommended resolution for the

2 disparate content.

1 17. The method of claim 16, the message further including a modified first digital resource

2 comprising a copy of the first digital resource altered by application of the recommended resolution.

1 18. The method of claim 17, wherein the communicating step further comprises:

2 transmitting a request to said at least one network server to replace the first digital resource

3 with the modified first digital resource.

1 19. The method of claim 18, the message further including an indication that said at least one

2 network server replaced the first digital resource with the modified first digital resource.

1 20. The method of claim 14, wherein the generating step further comprises:

2 querying the database for the author of the first digital resource.

1 21. The method of claim 20, wherein if the querying step fails to retrieve the author of the first

2 digital resource, the generating step further comprises:

3 applying heuristic algorithms; and

4 performing a probabilistic analysis.

1 22. Computer executable software code stored on a computer readable medium, the code for
2 managing digital resources on a network, the network connects to at least one network site having at
3 least one network server to access a first digital resource and a second digital resource, the first
4 digital resource having a link to the second digital resource, the code comprising:
5 code to create an association in a database between an author and the first digital resource;
6 code to detect a change in the first digital resource; and
7 code to notify the author of the change in the first digital resource.

1 23. The computer executable software code of claim 22, wherein the code to detect a change
2 further comprises:
3 code to retrieve data from said at least one network site and store the data in the database;
4 and
5 code to examine the first digital resource and the second digital resource to detect an error in
6 the link to the second digital resource.

1 24. The computer executable software code of claim 23, wherein the code to notify the author
2 further comprises:
3 code to generate a message describing a resolution for the error; and
4 code to communicate the message to the author of the first digital resource.

1 25. The computer executable software code of claim 24, wherein the code to communicate the
2 message further comprises:
3 code to query the database for the author of the first digital resource; and
4 code to determine the author of the first digital resource by applying heuristic algorithms
5 and performing a probabilistic analysis if the code to query the database does not retrieve the author
6 of the first digital resource.

1 26. The computer executable software code of claim 22 further comprising:
2 code to maintain the database and software processes.